

#### **FEATURES**

- OVC III up to 5000m and LPS
- Meets EN55032 "B" floating or earth coupled load
- Full load power: -40 to +60°C
- Reduced load rating to 90°C
- Industry standard pinning [P12]
- Medical; household & industrial standards
- PCB-mount; chassis and DIN-rail mount options
- 3 year warranty



#### **APPLICATIONS**





























#### DESCRIPTION

RACM30-K/277 AC/DC modules provide a leading thermally effective Power yield of 9.2 Watts per inch³ at 60°C still air for continuous loads of 30 Watts plus additional peak capability. These Modules operate in a temperature range of -40° to 90°C in compliance with safety standards of medical MOPP, household-, industrial, and measurement markets. Safety reports rate the series as LPS limited power source and OVCIII for an operating altitude of up to 5000m. Outputvoltages of 5V up to 54V can supply controller boards, sensors, actuators up to PoE+ power injectors per IEEE 802.at. A comfortable margin to EMI Class B limits, even with outputs connected to the ground, ease system implementation for quick time-to-market without additional external circuitry such as fuses or filters. For designers, maximum flexibility for these encapsulated, "THT"-through hole technology solder-mountable modules is pin-to-pin compatible with the well-established series RAC20-K. Further mechanical derivatives are potted modules with wires or a panel mount option with spring-clamp connectors which is convertible to DIN-Rail mounting via available RECOM Clip accessory.

SELECTION GUIDE					
Part Number	Input Voltage Range [VAC]	Output Voltage nom. [VDC]	Output Current max. [mA]	Efficiency typ. <sup>(1)</sup> [%]	Max. Capacitive Load <sup>(2)</sup> [μF]
RACM30-05SK/277	85-305	5	6000	86	10000
RACM30-12SK/277	85-305	12	2500	90	10000
RACM30-15SK/277	85-305	15	2000	90	10000
RACM30-24SK/277	85-305	24	1250	89	8000
RACM30-12DK/277	85-305	±12	±1250	86	±8000
RACM30-15DK/277	85-305	±15	±1000	86	±8000
RACM30-36SK/277	85-305	36	833	88	3000
RACM30-48SK/277	85-305	48	625	88	2000
RACM30-54SK/277	85-305	54	556	88	2000

Note1: Efficiency is tested at nominal input (230VAC) and full load at +25°C ambient

Note2: Measured @ T<sub>AMB</sub>= 25C°, nom. V<sub>IN</sub>, full load and after warm-up unless otherwise stated



#### MODEL NUMBERING



Note3: without suffix = THT-solder mount, encapsulated add suffix "/PMP" = panel mount version with push-in terminals add suffix "/PMA" = panel mount version with  $45^{\circ}$  angled push-in terminal

add suffix "/W" for wired version (single output only), encapsulated, potted add suffix "/OF" = standard  $38.1 \text{mm} \times 76.2 \text{mm}$  (1.5"x3") open frame version with header connectors

Note4: For other case/connection/footprint options, please contact RECOM Tech-Support.

ACCESSIBLE PART		
Part Number	Description	Datasheet Link
RAC-ADAPT-ST-1	adapter board with screw terminals for easy connection	RAC-ADAPT-ST-1.pdf
R-DR/Clip	Din Rail mounting clip only for "/PMP" and "/PMA"	R-DR/CLIP.pdf

Ordering information								
Model	nom. Output	Single/Dual	Package Type Suffix					
Model	Voltage		THT-solder mount	"/PMP"	"/PMA"	"/W"	"/0F"	
RACM30-05SK/277	5VDC	Single	X	Χ	on request	Χ	Х	
RACM30-12SK/277	12VDC	Single	Х	Х	Х	Х	Х	
RACM30-15SK/277	15VDC	Single	Х	N/A	Х	Х	Х	
RACM30-24SK/277	24VDC	Single	Х	Χ	on request	Х	Х	
RACM30-36SK/277	36VDC	Single	Х	N/A	on request	on request	Х	
RACM30-48SK/277	48VDC	Single	Х	N/A	Х	on request	Х	
RACM30-54SK/277	54VDC	Single	Х	N/A	Х	Х	N/A	
RACM30-12DK/277	±12VDC	Dual	Х	on request	N/A	N/A	Х	
RACM30-15DK/277	±15VDC	Dual	Х	on request	N/A	N/A	Х	

x= standard portfolio / on request= MOQ may apply on project base / N/A= not available

Parameter	Con	Min.	Тур.	Max.	
Internal Input Filter				Pi Type	
Nominal Input Voltage	50/	60Hz	100VAC		277VAC
Onerating Denge (5.6)	47-	63Hz	85VAC	230VAC	305VAC
Operating Range (5, 6)	[	OC .	120VDC		430VDC
	V <sub>IN</sub> = 1	15VAC			650mA
Input Current	V <sub>IN</sub> = 2	230VAC			350mA
	V <sub>IN</sub> = 2			300mA	
		V <sub>IN</sub> = 115VAC			20A
Inrush Current	cold start at +25°C	V <sub>IN</sub> = 230VAC			30A
		V <sub>IN</sub> = 277VAC			36A
No Load Power Consumption	at +25°C	230VAC			100mW
		P <sub>IN</sub> = 0.3W			0.22W
Ecodesign Standby Mode Use	$V_{IN} = 230VAC$	P <sub>IN</sub> = 0.5W			0.39W
(Available output power for stated input power)		P <sub>IN</sub> = 1W			0.79W
Input Frequency Range			47Hz		63Hz
Minimum Load			0%		
	V <sub>IN</sub> = 1		0.6		
Power Factor	$V_{IN}=2$		0.5		
	V <sub>IN</sub> = 2		0.45		



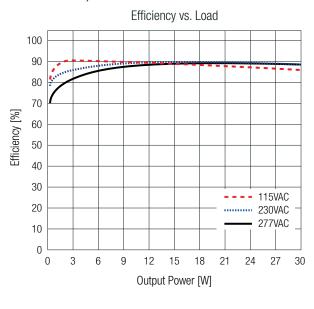
BASIC CHARACTERISTICS (measured @ T <sub>AMB</sub> = 25°C, nom. V <sub>IN</sub> , full load and after warm-up unless otherwise stated)						
Parameter	Cond	Condition			Max.	
Start-up time	V <sub>IN</sub> = 2	V <sub>IN</sub> = 230VAC			150ms	
Rise time	V <sub>IN</sub> = 230VAC				30ms	
Hold-up time	V <sub>IN</sub> = 2	V <sub>IN</sub> = 230VAC				
Internal Operating Frequency	100% load	100% load at nominal V <sub>IN</sub>			100kHz	
Output Dipple and Naire (7)	OOMILT DW . OESC	others			100mVp-p	
Output Ripple and Noise (7)	20MHz BW, +25°C	54VDC			200mVp-p	

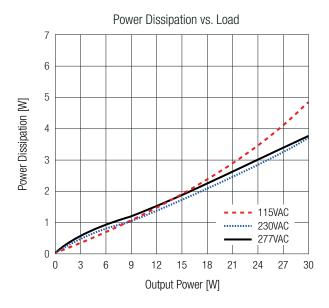
Note5: The products were submitted for safety files at AC-Input operation, and to IEC/EN61010-1 for DC-operation.

Note6: The selection of a system-adapted DC fuse in the input circuit is recommended

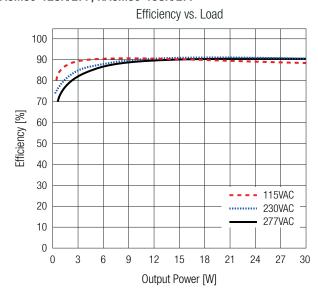
Note7: Measurements are made with a 0.1µF MLCC & 10µF E-cap in parallel across output. (low ESR)

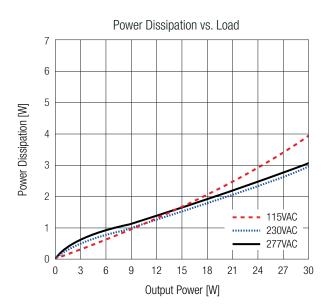
#### RACM30-05SK/277; RACM30-24SK/277





#### RACM30-12SK/277; RACM30-15SK/277



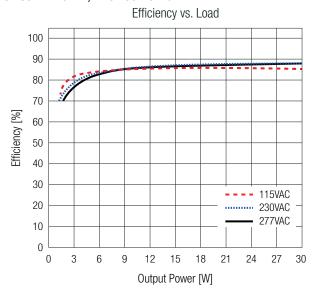


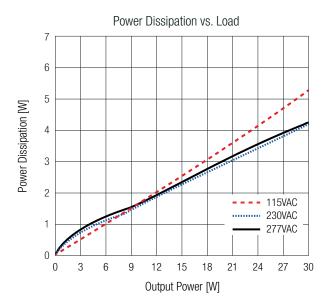
30W ◊ Universal Input 100V-277VAC



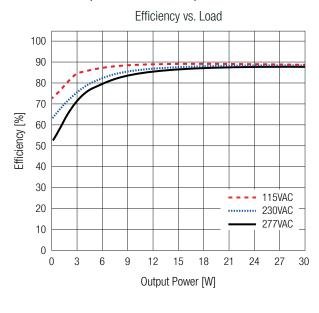
BASIC CHARACTERISTICS (measured @ T<sub>AMB</sub>= 25°C, nom. V<sub>IN</sub>, full load and after warm-up unless otherwise stated)

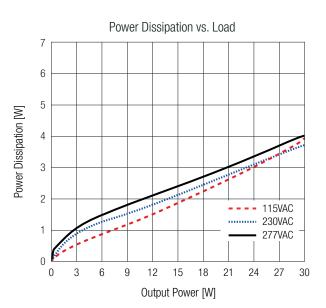
#### RACM30-12DK/277; RACM30-15DK/277





#### RACM30-36SK/277; RACM30-48SK/277; RACM30-54SK/277





REGULATIONS (measured @ T <sub>AMB</sub> =	= 25°C, nom. $V_{\text{IN}}$ , full load and after wa	arm-up unless otherwise stated)	
Parameter	Condi	tion	Value
Output Accuracy	single o	utput	±2.0% typ.
Output Accuracy	dual ou	utput	±3.0% typ.
		5VDC	±1.0% typ.
Line Regulation	low line to high line	others	±0.5% typ.
		48, 54VDC	±1.5% typ.
		5VDC	3.0% typ.
Load Regulation (8)	10% to 100% load	others	1.0% typ.
		54VDC	±1.5% typ.
Cross Regulation	dual outp	dual output only	
T D	25% load sto	ep change	4.0% max.
Transient Response	recovery	time /	500µs typ.

Note8: Operation below 10% load will not harm the converter, but specifications may not be met

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PROTECTIONS (measured @ T <sub>AMB</sub> = 25°C, nom. V <sub>IN</sub> , full load and after warm-up unless otherwise stated)						
Parameter	Ту	pe		Value		
Internal Input Fuse (9)				T3.15A, slow blow type		
Short Circuit Protection (SCP)				hiccup, auto recovery		
Over Veltage Protection (OVP)	oth	ers		150% - 195%, hiccup mode		
Over Voltage Protection (OVP)	36, 48,	54VDC		120% - 195%, hiccup mode		
Over Current Protection (OCP)	oth	ers		<180%, hiccup mode		
Over current Protection (OGF)	36, 48,	54VDC		<200%, hiccup mode		
Over Voltage Category	THT-solder mount; "/W"; "/PMP"; "/PMA"		; "/PMA"	OVC III (5000m)		
(OVC II, OVC III, OVC IV @ 100-150VAC Input)	"/(	"/OF"		OVC III (3000m) / OVC II (5000m)		
DC ON LED	only for "/PMF	o" and "/PM	Α"	green		
Class of Equipment				Class II		
Isolation Voltage (10)	I/P to O/P, I/P to case, O/I	o to case	1 minute	4kVAC		
Isolation Resistance	V <sub>ISO</sub> = 5	00VDC		1GΩ min.		
Isolation Capacitance	I/P to O/P, 1	00kHz/0.1V		100pF max.		
Insulation Grade	I/P to	0/P		reinforced		
Means of Protection	I/P to O/P			2MOPP		
Medical Device Classification	built-in power supply			designed to support type BF applications		
Touch Current	264VAC/63Hz	norma	l condition	<100μA		
IOUGH GUITEHL	Z04VAU/03FIZ	sin	gle fault	<500μΑ		

Note9: For system integration with DC operation, consider a suitable DC fuse in front of the input Note10: For repeat Hi-Pot testing, reduce the time and/or the test voltage

Parameter		C	Condition			Value	
Operating Ambient Temperature Range	@ natural con	vection (0.1m/s)	refe	r to <b>"Derating</b>	Graph"	-40°C to +90°C	
Maximum Case Temperature						+110°C	
Temperature Coefficient						0.02%/K	
Operating Altitude (11)		according to 623	368-1, 60601-	1, 61558		5000m	
Operating Humidity		non-	-condensing			90% RH max.	
Dellation Decree		THT-solder mour	nt; "/W"; "/PMP	"; "/PMA"		PD3	
Pollution Degree			"/0F"			PD2	
		according	to MII -STD-20	26		10-500Hz, 2G 10min./1cycle, period	
	according to MIL-STD-202G					60min. each along x,y,z axes	
Vibration	according to IEC 600		C 60068-2-27		3 axis, 40 g half sine, 11 ms shock		
	THT-solder mount models only	according to IEC 60068-2-65				5-500Hz, 20m/s <sup>2</sup> , 1 Oct/min, 15min	
	Thodolo of hy	6	according to IEC	60068-2-64		10-500Hz; RMS 23,4m/s <sup>2</sup> ; 15min	
	according to  MIL-HDBK-217,  THT-solder mount; "/\text{"/PMP"}; "/PMA"		der mount; "/W	m.,	T <sub>AMB</sub> = +25°C	>1357 x 10 <sup>3</sup> hours	
MTBF			"/PMP"; "/PMA"		T <sub>AMB</sub> = +40°C	>1096 x 10 <sup>3</sup> hours	
IVITOF	G.B.		"/0F"		T <sub>AMB</sub> = +25°C	>1115 x 10 <sup>3</sup> hours	
	G.B.		/UF		T <sub>AMB</sub> = +40°C	>873 x 10 <sup>3</sup> hours	
		THT-solder mount:	oingle output	5VDC	T <sub>AMB</sub> = +45°C	. 00 v 103 hours	
Design Lifetime		"/W";	single output	others	T <sub>AMB</sub> = +50°C	>30 x 10 <sup>3</sup> hours	
	230VAC/50Hz and	"/PMP";	dual a	utauta	T <sub>AMB</sub> = +40°C	>30 x 10 <sup>3</sup> hours	
	full load	"/PMA"	dual outputs		T <sub>AMB</sub> = +50°C	>17 x 10 <sup>3</sup> hours	
		"/0F'	,	5VDC	T <sub>AMB</sub> = +45°C	> 20 y 103 have	
	"/0		others		T <sub>AMB</sub> = +50°C	->30 x 10 <sup>3</sup> hour	

Note11: Recognized by safety agency for safe operation up to 5000m. High altitude operation may impact the performance and lifetime.

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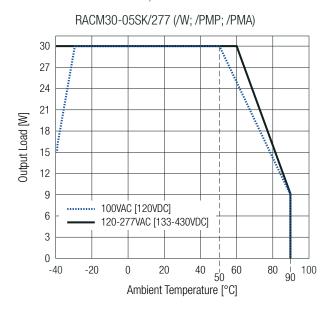
30W ◊ Universal Input 100V-277VAC

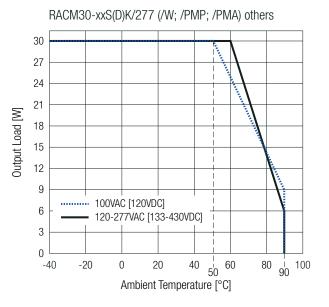


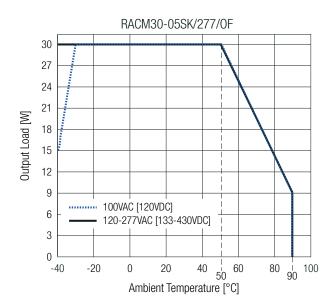
ENVIRONMENTAL (measured @ T<sub>AMB</sub>= 25°C, nom. V<sub>IN</sub>, full load and after warm-up unless otherwise stated)

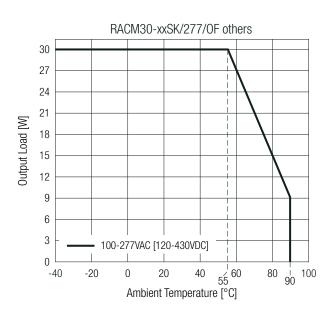
#### **Derating Graph**

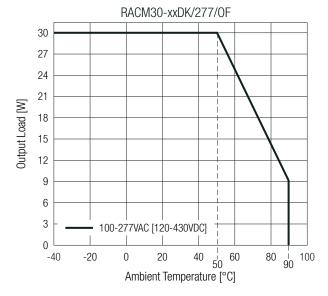
(@ Chamber and natural convection 0.1m/s)











## 30W ◊ Universal Input 100V-277VAC



#### PEAK LOAD CAPABILITY (SINGLE OUTPUT ONLY)

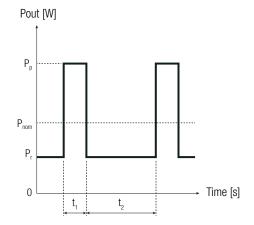
#### Calculation:

D	(00)	T\ A /7
$P_{nom}$	= nom. output power (30)	[W]
$P_P$	= peak output power (see table)	[W]
$P_{r}$	= recovery output power	[W]
$t_1$	= peak time set (10s max.)	[s]
$t_2$	= recovery time (min. $5 \times t_1$ )	[s]
k	= safety factor 1.1	[]

$$P_r = \frac{P_{\text{nom }} x (t_1 + t_2) - (P_p x t_1)}{t_2 x k}$$

#### Maximum Peak Power

nom. V <sub>OUT</sub> = 5VDC - 12VDC	33W
nom. V <sub>OUT</sub> = 15VDC - 54VDC	36W



#### Practical Example (RACM30-24SK/277):

Take the RACM30-24SK/277 at 230VAC input and full load at  $T_{\text{AMB}}$ = 25°C, with natural convection.

Certificate Type (Safety)	Report Number	Standard
Audio/Video, information and communication technology equipment - Part1: Safety requirements (LVD)	64.210.22.02737.02 (except "/OF" and all 36,48,54VDC)	EN62368-1:2014+A11:2017 (2nd Edition)
Audio/Video, information and communication technology equipment - Safety requirements (CB)	085-220273601-200 (THT-solder mount and	IEC62368-1:2018 (3rd Edition)
Audio/Video, information and communication technology equipment - Safety requirements	"/OF" only, except all 36,48,54VDC)	EN IEC 62368-1:2020+A11:2020 (3rd Edition)
Audio/Video, information and communication technology equipment - Part1: Safety requirements (CB)	241202007	IEC62368-1:2018 (3rd Edition)
Audio/Video, information and communication technology equipment - Part1: Safety requirements	(except "/PMP; /PMA")	EN IEC 62368-1:2020+A11:2020 (3rd Edition)
Audio/Video, information and communication technology equipment - Part1: Safety requirements	E491408-A6038-UL (except "/PMP; /PMA")	UL62368-1:2019 (3rd Edition) CAN/CSA-C22.2 No. 62368-1-19 (3rd Edition)
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements (CB)	085-220277601-000 (except "/PMA"; "/OF", and all 36,48,54VDC)	IEC61010-1:2010+A1:2016 3rd Edition with IEC61010-2-201:2017
Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements (LVD)	64.240.22.02776.01 (except "/PMA"; "/OF", and all 36,48,54VDC)	EN61010-1:2010+A1:2019 with EN IEC 61010-2-201:2018
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	E511305-D6005-UL	ANSI/AAMI ES60601-1:2005+A1:2012+A2:2021 (Edition 3.2) CAN/CSA-C22.2 No. 60601-1:14+A2:2022 (Edition 3.2)
Medical electrical equipment Part 1: General requirements for basic safety and essential performance (CB		IEC60601-1:2005+C1:2006+C2:2007+AM1:2012 (Edition 3.1)
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	(except all 36,48,54VDC)	EN60601-1:2006+A1:2013+AC:2014
Medical electrical equipment Part 1: General requirements for basic safety and essential performance (CB	)	IEC60601-1:2005+A1:2012+A2:2020 (Edition 3.2)
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	240830022	EN60601-1:2006+A1:2013+A12:2014+A2:2021



SAFETY & CERTIFICATIONS		
Certificate Type (Safety)	Report Number	Standard
Household and similar electrical appliances – Safety – Part 1: General requirements (CB)		IEC60335-1:2010+A2:2016 5th Edition
Household and similar electrical appliances – Safety – Part 1: General requirements (LVD)		EN60335-1:2012+A11:2014+A13:2017+A1:2019+ A14:2019+A2:2019+A15:2021+A16:2023
Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	085-240715301-000	EN62233:2008
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V (CB)		IEC61558-1:2017 (3rd Edition)
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V Part 2: Particular requirements (CB)		EN61558-2-16:2009+A1:2013 (1st Edition)
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V (CB)	005 220272001 200	IEC61558-1:2017 (3rd Edition)
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V Part 2: Particular requirements (CB)	- 085-220273801-300	IEC61558-2-16:2009+A1:2013 (1st Edition)
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V (LVD)	64 050 00 00700 00	EN IEC 61558-1:2019 (3rd Edition)
Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V Part 2: Particular requirements (LVD)	64.250.22.02738.03	EN61558-2-16:2009+A1:2013
RoHS2		RoHS-2011/65/EU + AM-2015/863

EMC Compliance according to EN60601-1-2	Condition	Standard / Criterion
Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance		EN60601-1-2:2015+A1:2021
ESD Electrostatic discharge immunity test	Air +/-2, 4, 8, 15kV; Contact +/- 8kV	IEC61000-4-2:2008 EN61000-4-2:2009
Radiated, radio-frequency, electromagnetic field immunity test	10 V/m (80-2700MHz), 27V/m (385MHz), 28V/m (450MHz), 9V/m (710, 745, 780MHz), 28V/m (810, 870, 930MHz), 28V/m (1720, 1845, 1970MHz), 28V/m (2450MHz), 9V/m (5240, 5500, 5785MHz)	IEC61000-4-3:2006+A1:2007+A2:2010 EN61000- 4-3:2006+A1:2008+A2:2010
Fast Transient and Burst Immunity	AC Power Port L, N, L-N +/-2kV	IEC/EN61000-4-4:2012
Surge Immunity	AC Power Port L-N 0.5, 1, 2kV	IEC/EN61000-4-5:2014+A1:2017
Immunity to conducted disturbances, induced by radio-frequency fields	3, 6Vrms (0.15-80MHz)	IEC61000-4-6:2013 / EN61000-4-6:2014
Voltage Dips	100% (0.5P, 1.0P) 30% (25P,/30P)	IEC/EN61000-4-11:2004+A1:2017
Voltage Interruptions	100% (250P/300P)	IEC/EN61000-4-11:2004+A1:2017
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013

EMC Compliance according to /EN55032/EN55035	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment – Emission Requirements	O/P: floating or earth coupled (FE; PE or GND)	EN55032:2015+A11:2020, Class B
Electromagnetic compatibility of multimedia equipment – Immunity requirements		EN55035:2017+A11:2020
Radiated, radio-frequency, electromagnetic field immunity test	3V/m	IEC61000-4-3:2006+A1:2007+A2:2010, Criteria A
naulateu, raulo-irequericy, electromagnetic field infiliality test	(1800MHz, 2600MHz, 3500MHz, 5000MHz)	EN61000-4-3:2006+A1:2008+A2:2010, Criteria A
Fast Transient and Burst Immunity	AC Power Port L, N, L-N 2kV	IEC61000-4-4:2012 / EN61000-4-4:2012, Criteria A
i ast transient and burst infindinty	DC Load Line 0.5kV	LC01000-4-4.2012 / LN01000-4-4.2012, Official A



SAFETY & CERTIFICATIONS		
EMC Compliance according to EN IEC61204-1	Condition	Standard / Criterion
Low voltage power supplies, d.c. output Part 3: Electromagnetic compatibility (EMC)		EN IEC 61204-3:2018, Class B
ESD Electrostatic discharge immunity test	Air +/-2, 4, 8kV; Contact +/- 4kV / AC and DC input	IEC61000-4-2:2008, Criteria A EN61000-4-2:2009, Criteria A
Radiated, radio-frequency, electromagnetic field immunity test	10V/m (80-1000MHz), 3V/m (1400-2000MHz), 1V/m (2000-2700MHz)	IEC61000-4-3:2006+A1:2007+A2:2010, Criteria A EN61000-4-3:2006+A1:2008+A2:2010, Criteria A
Fast Transient and Burst Immunity	AC Power Port: L, N, L-N ±2kV, Criteria B (except 36V, 48V, 54V) AC Power Port: L, N, L-N ±2kV, Criteria A (36V and 54V) AC Power Port: L, N, L-N +2kV / Criteria A (48V only) AC Power Port: L, N -2kV / Criteria A (48V only) AC Power Port: L-N -2kV / Criteria B (48V only)	IEC61000-4-4:2012 EN61000-4-4:2012
Surge Immunity	AC Power Port: L-N 0.5, 1, 2kV	IEC/EN61000-4-5:2014+A1:2017, Criteria A
Immunity to conducted disturbances, induced by radio-frequency fields	10Vrms (0.15-80MHz)	IEC61000-4-6:2013, Criteria A EN61000-4-6:2014, Criteria A
Power Magnetic Field Immunity	EN61204-3: 30A/m	IEC61000-4-8:2009, Criteria A EN61000-4-8:2010, Criteria A
Voltage Dips	100% (0.5P, 1.0P) 60% (36V, 48V, 54V) 20% & 30%	IEC/EN61000-4-11:2004+A1:2017, Criteria A
	60% (except 36V, 48V, 54V)	IEC/EN61000-4-11:2004+A1:2017, Criteria B
Voltage Interruptions	100%	IEC/EN61000-4-11:2004+A1:2017, Criteria B
Limits of Harmonic Current Emissions		EN IEC 61000-3-2:2019
Limits of Voltage Fluctuations & Flicker		EN61000-3-3:2013+A1:2019

EMC Compliance according to EN55014-1/EN55014-2	Condition	Standard / Criterion
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission		EN55014-1:2017
Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity		EN55014-2:2015
Immunity to conducted disturbances, induced by radio-frequency fields	3Vrms (0.15-230MHz)	IEC61000-4-6:2013, Criteria A EN61000-4-6:2014, Criteria A

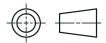
DIMENSION & PHYSICAL CHARACTERISTICS		
Parameter	Туре	Value
	case/baseplate	plastic, (UL94-V0)
Materials	potting	PU, (UL94-V0)
	PCB	FR4, (UL94-V0)
	THT-solder mount; "/W"	52.5 x 40.0 x 25.5mm 2.0 x 1.5 x 1.0 inch
Dimension (LxWxH)	"/PMP"; "/PMA"	84.7 x 40.0 x 33.0mm 3.3 x 1.5 x 1.3 inch
	"/0F"	76.2 x 38.1 x 25.0mm 3.0 x 1.5 x 0.98 inch
	THT-solder mount	93g / 0.21 lbs
Weight	"/PMP"; "/PMA"	122g / 0.27 lbs
weight	"/W" including wires	98g / 0.22 lbs
	"/0F"	49g / 0.11 lbs

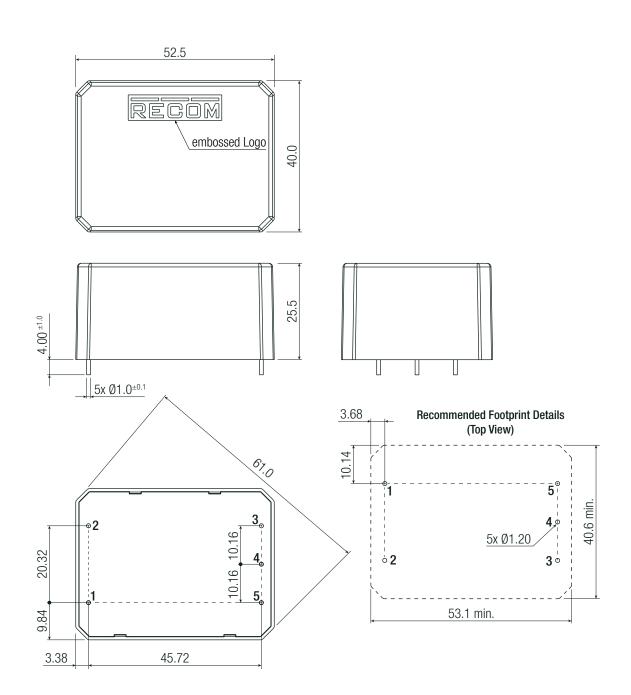
30W ◊ Universal Input 100V-277VAC



#### DIMENSION & PHYSICAL CHARACTERISTICS

THT-solder mount version SINGLE and DUAL Output (mm)





#### Pinning information [P12]

Pin #	Single	Dual
1	VAC in (N)	VAC in (N)
2	VAC in (L)	VAC in (L)
3	no pin	-Vout
4	-Vout	Com
5	+Vout	+Vout

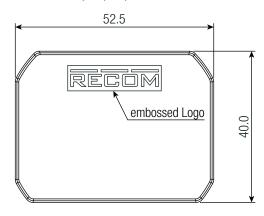
Tolerance:  $x.x=\pm0.5$ mm  $x.xx=\pm0.25$ mm

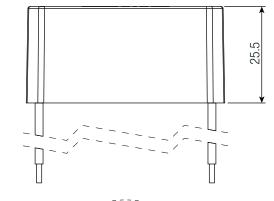
30W ◊ Universal Input 100V-277VAC

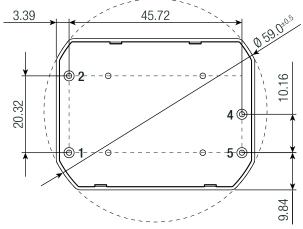


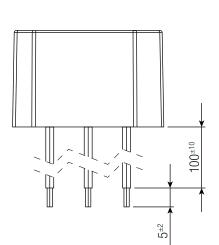
#### DIMENSION & PHYSICAL CHARACTERISTICS

#### Wired version "/W" SINGLE Output (mm)









#### Wire information

#	Function	Wire color	Type	AWG
1	VAC in (N)	blue	UL-1015	18
2	VAC in (L)	brown	UL-1015	18
4	-Vout	black	UL-1015	18
5	+Vout	red	UL-1015	18

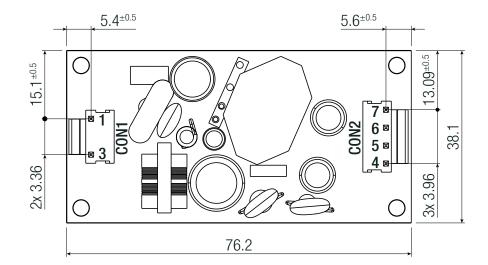
Tolerance:  $x.x=\pm 0.5mm$   $x.xx=\pm 0.25mm$ 

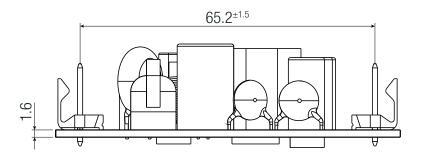
30W ◊ Universal Input 100V-277VAC



#### DIMENSION & PHYSICAL CHARACTERISTICS

#### Open Frame "/OF" SINGLE Output (mm)

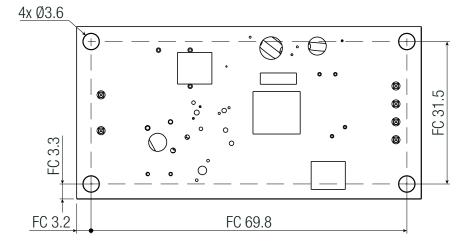




#### Connector Information - SINGLE

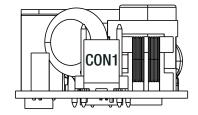
	#	Function	Connector
		AC Inp	ut (CON1)
	1	VAC in (L)	Molex 26-62-4030
	3	VAC in (N)	(Pin2 removed)
	DC Output Connector (CON2)		
	4, 5	+Vout	Molex 26-60-4040
_	6, 7	-Vout	WIUIGX 20-00-4040
	EO (' '		

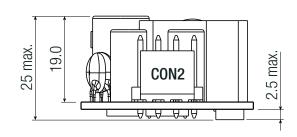
FC= fixing centers



#### **Compatible Connector**

oonipatible oonilectel		
Housing		
Molex 41695 Series or equivalent		
Crimp Terminal		
Moley 2478 Series or equivalent		





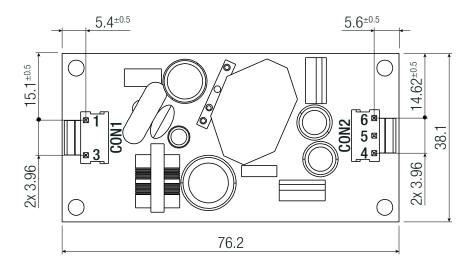
Tolerance:  $x.x=\pm0.5$ mm  $x.xx=\pm0.25$ mm

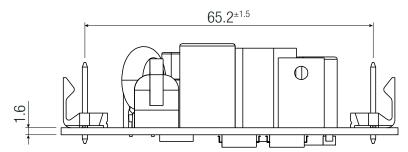
30W ♦ Universal Input 100V-277VAC



#### **DIMENSION & PHYSICAL CHARACTERISTICS**

#### Open Frame "/OF" DUAL Output (mm)

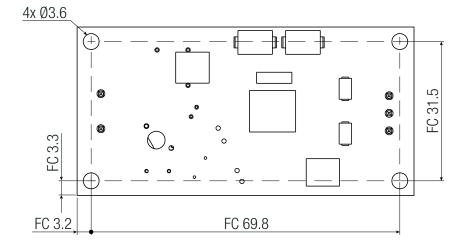




#### **Connector Information - DUAL**

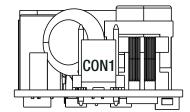
#	Function	Connector	
	AC Input (CON1)		
1	VAC in (L)	Molex 26-62-4030	
3	VAC in (N)	(Pin2 removed)	
DC Output Connector (CON2)			
4	+Vout		
5	Com	Molex 26-60-4030	
6	-Vout		

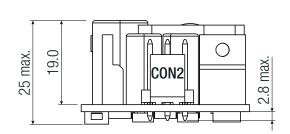
FC= fixing centers



### Compatible Connector

•	
Housing	
Molex 41695 Series or equivalent	
Crimp Terminal	
Molex 2478 Series or equivalent	



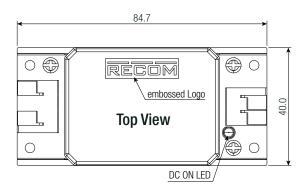


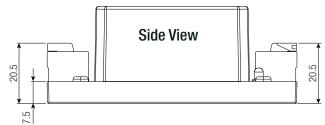
30W ◊ Universal Input 100V-277VAC



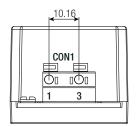
#### **DIMENSION & PHYSICAL CHARACTERISTICS**

#### Panel Mount "/PMP" SINGLE Output (mm)

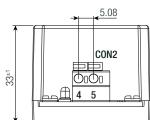




#### **AC Input Side**



#### DC Output Side



#### **Push-In Spring Terminal**

#	Function	Pitch
	AC Input (CON1)	
1	VAC in (N)	10.16mm pitch
3	VAC in (L)	pin2 removed
DC Output (CON2)		ut (CON2)
4	-Vout	2 pins
5	+Vout	5.08mm pitch

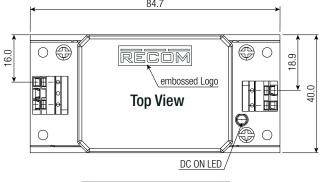
Wire stripping length: 11mm Wire cross section: 22-16AWG (0.2-1.5mm²)

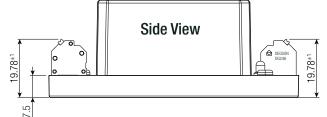
Usable wire cable: Solid and stranded FC= fixing centers

#### Terminal Information

AC Input (CON1)				
Degson				
(DG142R-5.08-02P-2Y)				
DC Output (CON2)				
Degson				
(DG142R-5.08-02P-1Y)				

#### Panel Mount "/PMA" SINGLE Output (mm)





# AC Input Side 7.62 CON1 T S CON2 A S CON2 A S CON2 A S CON2 A S CON2

#### Push-In Spring Terminal

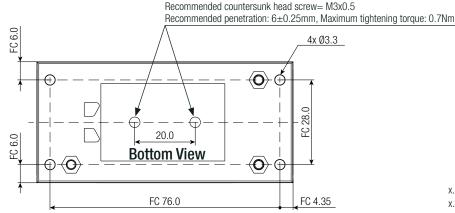
#	Function	Terminal	<b>Terminal Information</b>
AC Input (CON1)			AC Input (CON1)
1	VAC in (N)	7.62mm pitch	Degson
3	VAC in (L)	pin2 removed	(DG246-3.81-02P-24)
	DC Output Cor	DC Output (CON2)	
4	-Vout	2pins	Degson
5	+Vout	5.08mm pitch	(DG246-5.08-02P-14)

Wire stripping length: 10mm

Wire cross section: 22-16AWG (0.2-1.5mm²) Usable wire cable: Solid and stranded

FC= fixing centers

2x M3x0.5 threads for RECOM accessory R-DR/CLIP din rail clip



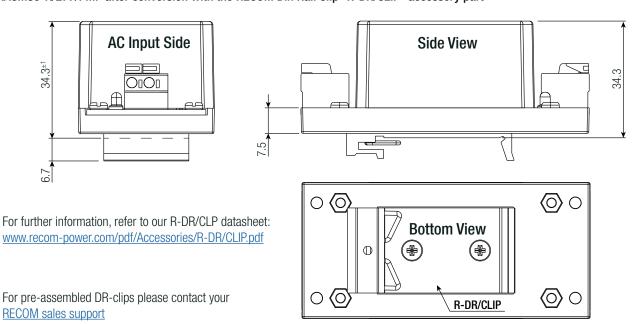
Tolerance:  $x.x = \pm 0.5$ mm x.xx = 0.25mm

30W ◊ Universal Input 100V-277VAC



#### **INSTALLATION AND APPLICATION**

RACM30-K/277/PMP after conversion with the RECOM Din Rail Clip "R-DR/CLIP" accessory part



PACKAGING INFORMATION					
Parameter	Туре		Value		
	tube	THT-solder mount	490.0 x 56.0 x 40.0mm		
Packaging Dimension (LxWxH)	tray	"/W"; "/PMP"; "/PMA"	405.0 x 360.0 x 55.0mm		
		"/OF"	360.0 x 205.0 x 50.0mm		
	THT-solder mount		11pcs		
Packaging Quantity	"/W"; "/PMP"; "/PMA"		24pcs		
	"/0F"		12pcs		
Storage Temperature Range			-40°C to +90°C		
Storage Humidity	non-condensing		95% RH max.		

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.